

### Abstract of the Disclosure

An X-ray CT examination using a radiation examining apparatus corresponding to an X-ray CT is effected on an unbreathed examinee. A tomogram creating apparatus creates a first tomogram, based on an X-ray detect signal outputted from a corresponding radiation detector of the radiation examining apparatus. An X-ray CT examination and a PET examination using a radiation examining apparatus are effected on the breathed examinee. The tomogram creating apparatus creates a second tomogram, based on an X-ray detect signal outputted from a corresponding radiation detector of the radiation examining apparatus and creates a third tomogram, based on a  $\gamma$ -ray detect signal outputted from the corresponding radiation detector. Correction information is created based on the first and second tomograms. The third tomogram is corrected using the correction information. Therefore, the corrected third tomogram can be obtained which is not affected by a swing produced with breathing.